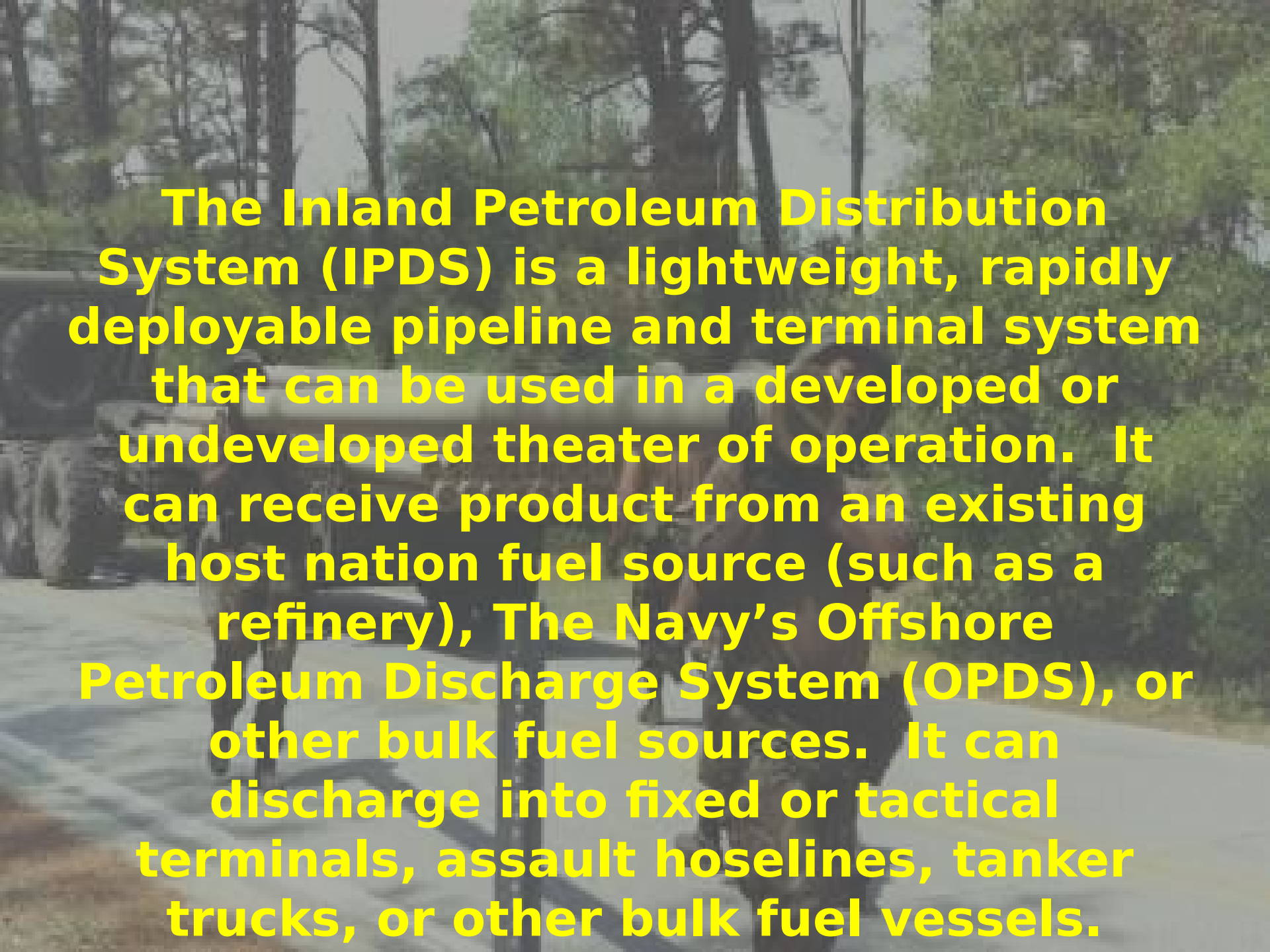
INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)



The Inland Petroleum Distribution System (IPDS) is a lightweight, rapidly deployable pipeline and terminal system that can be used in a developed or undeveloped theater of operation. It can receive product from an existing host nation fuel source (such as a refinery), The Navy's Offshore Petroleum Discharge System (OPDS), or other bulk fuel sources. It can discharge into fixed or tactical terminals, assault hoselines, tanker trucks, or other bulk fuel vessels.

Pipeline

- 19 FT Pipe, 6” Diameter
- 120 lbs Per Pipe
- Coupled, Single Grooved
- 156 Pipes Per 20’ ISO Contai
- 5 Mile Set = 13 ISO Containe
- 286,800 lbs Per Set
- 17,680 Total Cube
- Gate Valves, Elbows, Anchoring Kit, Etc

Pump Station

- Two 800 GPM Pumps Per Pump Station
- 740 PSI (2120 FT of Head)
- Operates on JP-8
- Operate One Pump at a Ti
- 6 ISO Containers Per Stati
- 18,000 lbs Per Pump
- 85,800 lbs Per Station
- 8,160 Total Cube Per Stati
- Launcher, receiver, strainers, light sets, and valves

Fuel Unit

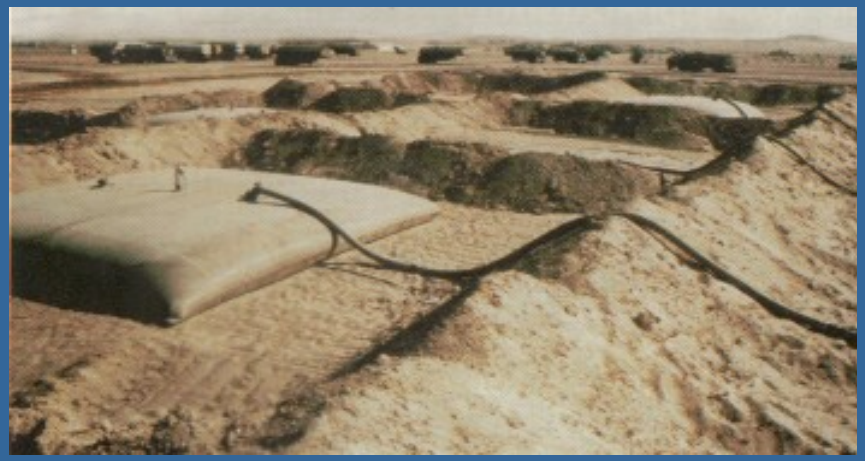
- Six 210K Gal Bags
- One 50K Gal Optional Bag
  - Two 210K Gal Bags
  - Hose, Valves, Hoseline & Fittings
  - 3 Containers Per Tank Farm Assemby
- One Tank Truck Receiving Manifold
  - 1 Hoseline Pump
  - Four De-Fueling Stations
  - 2 Containers For Each Manifold
- One Fuel Dispensing Assembly
  - 6 Stations For Trucks, 2 For Drums
  - 1 Container

Fuel Unit Continued

- 1 Transfer Hoseline Assembly (3 Tricons)
  - (15) 500’ by 6” Hoselines
- 6 Fire Suppression Assemblies
  - Designed to Apply Dry Chemical
  - Applies Foam After Fire is Under Control
- 1 Fuel Unit Support Assembly (4 Containers)
  - 2 Floodlight Sets
  - 1 Displacement & Evacuation Kit
  - 1 Hoseline Suspension Kit
  - 1 Hoseline Repair 7 Installa
  - 1 Spare Hoseline Pump
- 24 ISO Containers Per Fuel Unit
- 32,640 Total Shipping Cube

Tactical Petroleum Terminal (TPT)

- Three Fuel Units = One TPT
- Storage Capacity = 3.78 Mil Gals
- 18 210K Gal Bag
- 77 ISO Containers
- 160 Acre Footprint



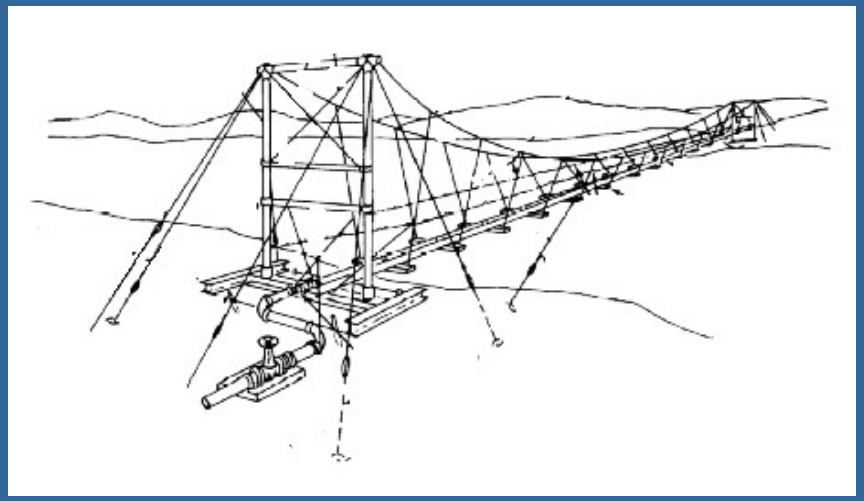
Pipeline Connection Assembly

- Required if Fuel is to be Received From/Issued to a Pipeline
- 1 Switching Manifold (1 Container)
- 1 Contaminated Fuel Module
  - 2 50,000 Gal Collapsib
  - 1 Transfer Pump
  - 1 Container
- 1 Transfer Hoseline Assembl
  - (15) 500’ by 6” Hose L
  - 3 Tricons

- 1 Fire Suppression Assembly (1 Container)
- 1 Pipeline Connection Support Assembly (1 Container)
- 4 Containers, 3 Tricons
- 68,700 lbs Per Assembly (32,640 Total Cube)

Pipeline Suspension Bridge

- Up to 400 ft Crossings
- No Special Tools Required
- Time Consuming to Construct
- Only Designed For 1 IPDS Pipe



Beach Termination Unit

- Part of The Navy's OPDS
- Navy Responsibility Terminates at BTU
- Reduces Pressure to 150 PSI
- Connects to IPDS Beach Interface (inland side)
- Connects to a Conduit

Amount of Available IPDS

Major Component	SIAD	Sagami	Other	
5 Mile Sets	71	50		58
Fuel Unit	18	23	10	51
Pump Stations	65	12	11	88

* Capable of extending pipeline 895 Miles and storing over 64 Million Gallons of fuel

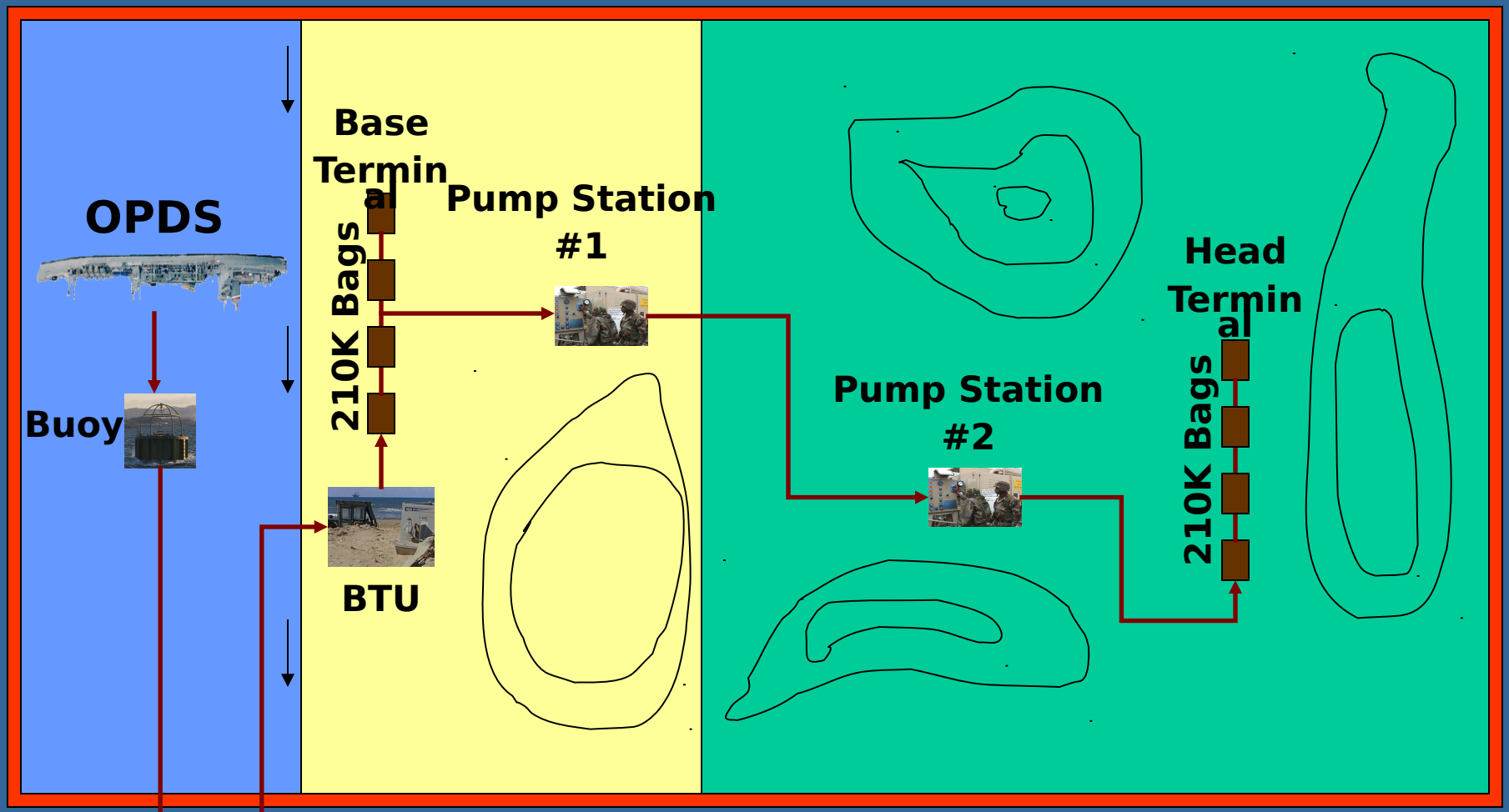
Terminal and Pipeline Operating Company Capabilities

- Operates up to 90 Miles of Pipeline
- Sustained Throughput of 720K GPD (960K Max)
- Stores up to 3.78 Million Gallons of Fuel
- Operates Six Pump Stations
- Issue Fuel to Tankers or Via Hoseline

***One* Pipeline Terminal Operating Company: 90 Miles /1 TPT**

***Two* Medium POL Truck Companies (POL)**
&
***Three* POL Supply Companies**

Typical IPDS Layout



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